FEMS Microbiology Ecology

AUTHOR INDEX VOLUME 53

Andersch, W., see Domsch, K.H. (53) 261
Andreoni, V. and Bestetti, G.
Ferulic acid degradation encoded by a catabolic plasmid (53) 129
Arunpairojana, V., see Sly, L.I. (53) 175

Bååth, E., Olsson, S. and Tunlid, A.
Growth of bacteria in the rhizoplane and the rhizosphere of rape seedlings (53) 355
Backström, V., see Kilpi, S. (53) 19
Bar-Or, Y. and Shilo, M.
The role of cell-bound flocculants in coflocculation of benthic cyanobacteria with clay particles (53) 169
Belay, N., see Rajagopal, B.S. (53) 153
Bestetti, G., see Andreoni, V. (53) 129
Bleakley, B. and Nealson, K.H.
Characterization of primary and secondary forms of *Xenorhabdus luminescens* strain Hm (53) 241
Boddy, L., see Chapela, I.H. (53) 273
Boddy, L., see Chapela, I.H. (53) 59
Boddy, L., see Dowson, C.G. (53) 291
Bosma, T.N.P., Van der Meer, J.R., Schraa, G., Tros, M.E. and Zehnder, A.J.B.
Reductive dechlorination of all trichloro- and dichlorobenzene isomers (53) 223
Botterweg, J., see Kromkamp, J. (53) 231
Brandt, S., see Sørensen, J. (53) 345

Camp, P.J.M., see De Jong, M.H. (53) 45
Chapela, I.H. and Boddy, L.
The fate of early fungal colonizers in beech branches decomposing on the forest floor (53) 273
Chapela, I.H., Boddy, L. and Rayner, A.D.M.
Structure and development of fungal communities in beech logs four and a half years after felling (53) 59
Christensen, P.B. and Sørensen, J.
Denitrification in sediment of lowland streams: Regional and seasonal variation in Gelbæk and Rabis Bæk, Denmark (53) 335
Christensen, S. and Tiedje, J.M.
Oxygen control prevents denitrifiers and barley plant roots from directly competing for nitrate (53) 217
Cochran, J.W., see Henson, J.M. (53) 193

Daniels, L., see Rajagopal, B.S. (53) 153
De Jong, M.H., Van der Hoeven, J.S., Van den Kieboom, C.W.A. and Camp, P.J.M.
Effects of oxygen on the growth and metabolism of *Actinomyces viscosus* (53) 45
De Wit, R., Van Boekel, W.H.M. and Van Gemerden, H.
Growth of the cyanobacterium *Microcoleus chtonoplastes* on sulfide (53) 203
Domsch, K.H., Driesel, A.J., Goebel, W., Andersch, W., Lindenmaier, W., Lotz, W., Reber, H. and Schmidt, F.
Considerations on release of gene-technologically engineered microorganisms into the environment (53) 261
Dowling, N.J.E., Nichols, P.D. and White, D.C.
Phospholipid fatty acid and infra-red spectroscopic analysis of a sulphate-reducing consortium (53) 325
Dowson, C.G., Rayner, A.D.M. and Boddy, L.
Foraging patterns of *Phallus impudicus*, *Phanerochaete laevis* and *Steccherinum fimbriatum* between discontinuous resource units in soil (53) 291
Driesel, A.J., see Domsch, K.H. (53) 261

Feest, A. and Madelin, M.F.
Seasonal population changes of myxomycetes and associated organisms in five non-woodland soils, and correlations between their numbers and soil characteristics (53) 141
Feest, A. and Madelin, M.F.
Seasonal population changes of myxomycetes and associated organisms in four woodland soils (53) 133

Gerhardus, M.J.T., see Gijzen, H.J. (53) 35
Gest, H., see Madigan, M.T. (53) 53
Gijzen, H.J., Lubberding, H.J., Gerhardus, M.J.T. and Vogels, G.D.
Contribution of rumen protozoa to fibre degradation and cellulase activity in vitro (53) 35
Goebel, W., see Domsch, K.H. (53) 261
Gottschal, J.C., see Ohta, H. (53) 79
Govaert, J.M., see Postma, J. (53) 251
Grayston, S.J. and Wainwright, M.
Sulphur oxidation by soil fungi including some species of mycorrhizae and wood-rotting Basidiomycetes (53) 1
Griebenow, K., see Häder, D.-P. (53) 159
Grivet, J.-P., see Tholozan, J.-L. (53) 187

Haahtela, K., Kilpi, S. and Kari, K.
Effects of phenoxy acid herbicides and glyphosate on nitrogenase activity (acetylene reduction) in root-associated *Azospirillum, Enterobacter* and *Klebsiella* (53) 123
Häder, D.-P. and Griebenow, K.
Orientation of the green flagellate, *Euglena gracilis*, in a vertical column of water (53) 159
Häder, D.-P., Rhiel, E. and Wehrmeyer, W.
Ecological consequences of photomovement and photo-

bleaching in the marine flagellate *Cryptomonas maculata* (53) 9
Henson, J.M., Yates, M.V., Cochran, J.W. and Shackleford, D.L.
Microbial removal of halogenated methanes, ethanes, and ethylenes in an aerobic soil exposed to methane (53) 193
Herwig, R.P., Pellerin, N.B., Irgens, R.L., Maki, J.S. and Staley, J.T.
Chitinolytic bacteria and chitin mineralization in the marine waters and sediments along the Antarctic Peninsula (53) 101
Himberg, K., see Kilpi, S. (53) 19
Hodgkinson, M.C., see Sly, L.I. (53) 175
Hofbauer, B. and Jüttner, F.
Occurrence of isopropylthio compounds in the aquatic ecosystem (Lake Neusiedl, Austria) as a chemical marker for *Microcystis flos-aquae* (53) 113

Irgens, R.L., see Herwig, R.P. (53) 101

Jørgensen, T., see Sørensen, J. (53) 345
Jüttner, F., see Hofbauer, B. (53) 113

Kari, K., see Haahtela, K. (53) 123
Kiene, R.P.
Dimethyl sulfide metabolism in salt marsh sediments (53) 71
Kilpi, S., Himberg, K., Yrjälä, K. and Backström, V.
The degradation of biphenyl and chlorobiphenyls by mixed bacterial cultures (53) 19
Kilpi, S., see Haahtela, K. (53) 123
Kromkamp, J., Botterweg, J. and Mur, L.R.
Buoyancy regulation in *Microcystis aeruginosa* grown at different temperatures (53) 231

Legan, J.D. and Owens, J.D.
Bacterial competition for methylamine: Computer simulation of a three-strain continuous culture supplied continuously or alternately with two nutrients (53) 307
Lindenmaier, W., see Domsch, K.H. (53) 261
Lotz, W., see Domsch, K.H. (53) 261
Lubberding, H.J., see Gijzen, H.J. (53) 35
Lysek, G., see Sünder, A. (53) 285

Madelin, M.F., see Feest, A. (53) 133
Madelin, M.F., see Feest, A. (53) 141
Madigan, M.T. and Gest, H.
Selective enrichment and isolation of *Rhodopseudomonas palustris* using *trans*-cinnamic acid as sole carbon source (53) 53
Maki, J.S., see Herwig, R.P. (53) 101
Mur, L.R., see Kromkamp, J. (53) 231

Nealson, K.H., see Bleakley, B. (53) 241
Nichols, P.D., see Dowling, N.J.E. (53) 325

Ohta, H. and Gottschal, J.C.
Microaerophilic growth of *Wolinella recta* ATCC 33238 (53) 79
Olsson, S., see Bååth, E. (53) 355
Owens, J.D., see Legan, J.D. (53) 307

Pellerin, N.B., see Herwig, R.P. (53) 101
Postma, J., Van Elsas, J.D., Govaert, J.M. and Van Veen, J.A.
The dynamics of *Rhizobium leguminosarum* biovar *trifolii* introduced into soil as determined by immunofluorescence and selective plating techniques (53) 251

Rajagopal, B.S., Belay, N. and Daniels, L.
Isolation and characterization of methanogenic bacteria from rice paddies (53) 153
Ramesh, A. and Venugopalan, V.K.
Luminous microflora associated with the fishes *Mugil cephalus* and *Tachysurus arius* (53) 27
Rayner, A.D.M., see Chapela, I.H. (53) 59
Rayner, A.D.M., see Dowson, C.G. (53) 291
Reber, H., see Domsch, K.H. (53) 261
Rhiel, E., see Häder, D.-P. (53) 9
Robinson, J.A., see Smolenski, W.J. (53) 95

Samain, E., see Tholozan, J.-L. (53) 187
Schmidt, F., see Domsch, K.H. (53) 261
Schraa, G., see Bosma, T.N.P. (53) 223
Shackleford, D.L., see Henson, J.M. (53) 193
Shilo, M., see Bar-Or, Y. (53) 169
Skyring, G.W.
Acetate as the main energy substrate for the sulfate-reducing bacteria in Lake Eliza (South Australia) hypersaline sediments (53) 87
Sly, L.I., Hodgkinson, M.C. and Arunpairojana, V.
Effect of water velocity on the early development of manganese- depositing biofilm in a drinking-water distribution system (53) 175
Smolenski, W.J. and Robinson, J.A.
In situ rumen hydrogen concentrations in steers fed eight times daily, measured using a mercury reduction detector (53) 95
Sørensen, J., Jørgensen, T. and Brandt, S.
Denitrification in stream epilithon: Seasonal variation in Gelbæk and Rabis Bæk, Denmark (53) 345
Sørensen, J., see Christensen, P.B. (53) 335
Staley, J.T., see Herwig, R.P. (53) 101
Starodub, M.E., see Van Elsas, J.D. (53) 299
Sünder, A. and Lysek, G.
Quantitative investigations on nematode-trapping hyphomycetes from woodland soils (53) 285
Swannell, R.P.J. and Williamson, F.A.
An investigation of staining methods to determine total cell numbers and the number of respiring micro-organisms in samples obtained from the field and the laboratory (53) 315

Tholozan, J.-L., Samain, E. and Grivet, J.-P.
Isomerization between *n*-butyrate and isobutyrate in enrichment cultures (53) 187

Tiedje, J.M., see Christensen, S. (53) 217
Trevors, J.T., see Van Elsas, J.D. (53) 299
Tros, M.E., see Bosma, T.N.P. (53) 223
Tunlid, A., see Bååth, E. (53) 355

Van Boekel, W.H.M., see De Wit, R. (53) 203
Van den Kieboom, C.W.A., see De Jong, M.H. (53) 45
Van der Hoeven, J.S., see De Jong, M.H. (53) 45
Van der Meer, J.R., see Bosma, T.N.P. (53) 223
Van Elsas, J.D., Trevors, J.T. and Starodub, M.E.
Bacterial conjugation between pseudomonads in the rhizosphere of wheat (53) 299
Van Elsas, J.D., see Postma, J. (53) 251
Van Gemerden, H., see De Wit, R. (53) 203
Van Veen, J.A., see Postma, J. (53) 251
Venugopalan, V.K., see Ramesh, A. (53) 27
Vogels, G.D., see Gijzen, H.J. (53) 35

Wainwright, M., see Grayston, S.J. (53) 1
Wais, A.C.
Recovery of halophilic archaebacteria from natural environments (53) 211
Wehrmeyer, W., see Häder, D.-P. (53) 9
White, D.C., see Dowling, N.J.E. (53) 325
Williamson, F.A., see Swannell, R.P.J. (53) 315

Yates, M.V., see Henson, J.M. (53) 193
Yrjälä, K., see Kilpi, S. (53) 19

Zehnder, A.J.B., see Bosma, T.N.P. (53) 223

FEMS Microbiology Ecology

SUBJECT INDEX VOLUME 53

Acetate
Butyrate; Fatty acid; Hypersaline; Molybdate; Propionate; Pyrite; Sulphate reduction rate (Skyring, G.W. (53) 87)

Acetylene inhibition technique
Benthic algae; Rhizosphere; Nitrate (Christensen, P.B. (53) 335)

Biofilm; Nitrous oxide (Sørensen, J. (53) 345)

Actinomyces
Oxygen; Cytochrome; Dental plaque (De Jong, M.H. (53) 45)

Adhesion
Pedomicrobium manganicum; *Metallogenium*; *Hyphomicrobium* (Sly, L.I. (53) 175)

Agricultural nitrogen fixation
Methanogen; Rice field (Rajagopal, B.S. (53) 153)

Alternating environment
Methylotroph; Methazotroph (Legan, J.D. (53) 307)

Amoeba
Slime mould; Myxogastrid; Phagotroph; Dictyostelid; Ciliate; Bacterium (Feest, A. (53) 133)

Slime mould; Myxogastrid; Phagotroph; Dictyostelid; Ciliate; Bacterium (Feest, A. (53) 141)

Anaerobic biotransformation
Chlorinated benzene; Environmental pollutant; Recalcitrant compound; Sequential reductive dechlorination (Bosma, T.N.P. (53) 223)

Anaerobic respiration
Wolinella recta; Formate oxidation; Microaerophily (Ohta, H. (53) 79)

Anaerobic sludge
Volatile fatty acid interconversion; ^{13}C-NMR (Tholozan, J.-L. (53) 187)

Antarctica
Chitin degradation; Psychrophilic bacterium; Krill (Herwig, R.P. (53) 101)

Aromatic catabolism
Nonsulphur purple bacterium; Photosynthesis; (*Rhodopseudomonas palustris*) (Madigan, M.T. (53) 53)

Associative N_2-fixer
Diazotroph; N_2 fixation; Pesticide (Haahtela, K. (53) 123)

Automatic cell counting
Euglena gracilis; Flagellate; Gravitaxis; Photomovement; Vertical distribution (Häder, D.-P. (53) 159)

Bacterial luciferase
Symbiosis; Insect pathogen; Bioluminescence (Bleakley, B. (53) 241)

Bacterium
Slime mould; Myxogastrid; Phagotroph; Dictyostelid; Ciliate; Amoeba (Feest, A. (53) 133)

Slime mould; Myxogastrid; Phagotroph; Dictyostelid; Ciliate; Amoeba (Feest, A. (53) 141)

Basidiomycetes
Foraging; Fungal growth; Mycelial cord; Wood decay (Dowson, C.G. (53) 291)

Benthic algae
Acetylene inhibition technique; Rhizosphere; Nitrate (Christensen, P.B. (53) 335)

Biodegradation
Biphenyl; Chlorobiphenyl; Mixed bacterial culture; Gas chromatography-mass spectrometry (Kilpi, S. (53) 19)

Biofilm
Acetylene inhibition technique; Nitrous oxide (Sørensen, J. (53) 345)

Bioluminescence
Symbiosis; Insect pathogen; Bacterial luciferase (Bleakley, B. (53) 241)

Biomarkers
Sulphate-reducing bacteria; Infra-red; Fatty acids (Dowling, N.J.E. (53) 325)

Biphenyl
Biodegradation; Chlorobiphenyl; Mixed bacterial culture; Gas chromatography-mass spectrometry (Kilpi, S. (53) 19)

Bulk soil
Rhizobium leguminosarum biovar *trifolii*; Population dynamics; Cell size; Immunofluorescence (Postma, J. (53) 251)

Buoyancy regulation
Microcystis aeruginosa; Gas vesicle; Temperature; Photosynthesis (Kromkamp, J. (53) 231)

Butyrate
Acetate; Fatty acid; Hypersaline; Molybdate; Propionate; Pyrite; Sulphate reduction rate (Skyring, G.W. (53) 87)

Cell culture
Halophilic bacterium; Stromatolithic mat; Growth factor (Wais, A.C. (53) 211)

Cell size
Rhizobium leguminosarum biovar *trifolii*; Bulk soil; Population dynamics; Immunofluorescence (Postma, J. (53) 251)

Chemotaxonomy
Cyanobacterial bloom; Diisopropyl disulphide; bis(Methylthio)methane; Dibutyl sulphide; Volatile organic odour compound (Hofbauer, B. (53) 113)

Chitin degradation
Antarctica; Psychrophilic bacterium; Krill (Herwig, R.P. (53) 101)

Chlorinated benzene
Anaerobic biotransformation; Environmental pollutant; Recalcitrant compound; Sequential reductive dechlorination (Bosma, T.N.P. (53) 223)

Chlorobiphenyl
Biodegradation; Biphenyl; Mixed bacterial culture; Gas chromatography-mass spectrometry (Kilpi, S. (53) 19)

Chloroform
Microbial degradation; Methylotrophic bacterium; Hydrocarbon-utilizing bacterium; Trichloroethylene (Henson, J.M. (53) 193)

Ciliate
Rumen fermentation; Fibre degradation; Defaunation; (Sheep) (Gijzen, H.J. (53) 35)

Slime mould; Myxogastrid; Phagotroph; Dictyostelid; Amoeba; Bacterium (Feest, A. (53) 133)

Slime mould; Myxogastrid; Phagotroph; Dictyostelid; Amoeba; Bacterium (Feest, A. (53) 141)

Clay
Coflocculation; Cyanobacterium; Flocculant (Bar-Or, Y. (53) 169)

Coflocculation
Cyanobacterium; Flocculant; Clay (Bar-Or, Y. (53) 169)

Colonization dynamics
Community development; *Hypoxylon* spp.; Latent invasion; Wood decay (Chapela, I.H. (53) 273)

Community development
Colonization dynamics; *Hypoxylon* spp.; Latent invasion; Wood decay (Chapela, I.H. (53) 273)

Competition
Pseudomonas chlororaphis; *Pseudomonas aureofaciens*; Denitrification; Oxygen; Nitrogen (Christensen, S. (53) 217)

Conjugation
Pseudomonas spp.; Soil; Rhizosphere (Van Elsas, J.D. (53) 299)

Cryptomonas
Photobleaching; Photomovement; Survival (Häder, D.-P. (53) 9)

Cyanobacterial bloom
Diisopropyl disulphide; bis(Methylthio)methane; Dibutyl sulphide; Chemotaxonomy; Volatile organic odour compound (Hofbauer, B. (53) 113)

Cyanobacterium
Coflocculation; Flocculant; Clay (Bar-Or, Y. (53) 169)

Cytochrome
Actinomyces; Oxygen; Dental plaque (De Jong, M.H. (53) 45)

Defaunation
Rumen fermentation; Fibre degradation; Ciliate; (Sheep) (Gijzen, H.J. (53) 35)

Denitrification
Pseudomonas chlororaphis; *Pseudomonas aureofaciens*; Competition; Oxygen; Nitrogen (Christensen, S. (53) 217)

Dental plaque
Actinomyces; Oxygen; Cytochrome (De Jong, M.H. (53) 45)

Diazotroph
Associative N_2-fixer; N_2 fixation; Pesticide (Haahtela, K. (53) 123)

Dibutyl sulphide
Cyanobacterial bloom; Diisopropyl disulphide; bis(Methylthio)methane; Chemotaxonomy; Volatile organic odour compound (Hofbauer, B. (53) 113)

Dictyostelid
Slime mould; Myxogastrid; Phagotroph; Ciliate; Amoeba; Bacterium (Feest, A. (53) 133)

Slime mould; Myxogastrid; Phagotroph; Ciliate; Amoeba; Bacterium (Feest, A. (53) 141)

Diisopropyl disulphide
Cyanobacterial bloom; bis(Methylthio)methane; Dibutyl sulphide; Chemotaxonomy; Volatile organic odour compound (Hofbauer, B. (53) 113)

Environmental pollutant
Anaerobic biotransformation; Chlorinated benzene; Recalcitrant compound; Sequential reductive dechlorination (Bosma, T.N.P. (53) 223)

Ethidium bromide
Microbial viability; INT; Fluorescence microscopy (Swannell, R.P.J. (53) 315)

Euglena gracilis
Automatic cell counting; Flagellate; Gravitaxis; Photomovement; Vertical distribution (Häder, D.-P. (53) 159)

Fatty acid
Acetate; Butyrate; Hypersaline; Molybdate; Propionate; Pyrite; Sulphate reduction rate (Skyring, G.W. (53) 87)

Fatty acids
Sulphate-reducing bacteria; Infra-red; Biomarkers (Dowling, N.J.E. (53) 325)

Fermentation monitoring
Ruminal methanogenesis; H_2 probe; Post-feeding H_2 fluctuation (Smolenski, W.J. (53) 95)

Fibre degradation
Rumen fermentation; Ciliate; Defaunation; (Sheep) (Gijzen, H.J. (53) 35)

Flagellate
Automatic cell counting; *Euglena gracilis*; Gravitaxis; Photomovement; Vertical distribution (Häder, D.-P. (53) 159)

Flocculant
Coflocculation; Cyanobacterium; Clay (Bar-Or, Y. (53) 169)

Fluorescence microscopy
Microbial viability; Ethidium bromide; INT (Swannell, R.P.J. (53) 315)

Flux
Salt marsh; Methylated sulphur compound; Methanogenesis; Sulphate reduction (Kiene, R.P. (53) 71)

Foraging
Basidiomycetes; Fungal growth; Mycelial cord; Wood decay (Dowson, C.G. (53) 291)

Formate oxidation
Wolinella recta; Microaerophily; Anaerobic respiration (Ohta, H. (53) 79)

Fungal growth
Basidiomycetes; Foraging; Mycelial cord; Wood decay (Dowson, C.G. (53) 291)

Gas chromatography-mass spectrometry
Biodegradation; Biphenyl; Chlorobiphenyl; Mixed bacterial culture (Kilpi, S. (53) 19)

Gas vesicle
Microcystis aeruginosa; Buoyancy regulation; Temperature; Photosynthesis (Kromkamp, J. (53) 231)

Genetic transmissibility
Metabolism; Lignin-related aromatic compound (Andreoni, V. (53) 129)

Gravitaxis
Automatic cell counting; *Euglena gracilis*; Flagellate; Photomovement; Vertical distribution (Häder, D.-P. (53) 159)

Growth factor
Halophilic bacterium; Stromatolithic mat; Cell culture (Wais, A.C. (53) 211)

Halophilic bacterium
Stromatolithic mat; Cell culture; Growth factor (Wais, A.C. (53) 211)

H_2 probe
Ruminal methanogenesis; Post-feeding H_2 fluctuation; Fermentation monitoring (Smolenski, W.J. (53) 95)

Hydrocarbon-utilizing bacterium
Microbial degradation; Methylotrophic bacterium; Trichloroethylene; Chloroform (Henson, J.M. (53) 193)

Hypersaline
Acetate; Butyrate; Fatty acid; Molybdate; Propionate; Pyrite; Sulphate reduction rate (Skyring, G.W. (53) 87)

Hyphomicrobium
Adhesion; *Pedomicrobium manganicum*; *Metallogenium* (Sly, L.I. (53) 175)

***Hypoxylon* spp.**
Colonization dynamics; Community development; Latent invasion; Wood decay (Chapela, I.H. (53) 273)

Immunofluorescence
Rhizobium leguminosarum biovar *trifolii*; Bulk soil; Population dynamics; Cell size (Postma, J. (53) 251)

Infra-red
Sulphate-reducing bacteria; Fatty acids; Biomarkers (Dowling, N.J.E. (53) 325)

Insect pathogen
Symbiosis; Bioluminescence; Bacterial luciferase (Bleakley, B. (53) 241)

INT
Microbial viability; Ethidium bromide; Fluorescence microscopy (Swannell, R.P.J. (53) 315)

Interspecific interaction
Succession; Replacement mechanism; Wood decay; Mycelial cord (Chapela, I.H. (53) 59)

Krill
Chitin degradation; Antarctica; Psychrophilic bacterium (Herwig, R.P. (53) 101)

Latent invasion
Colonization dynamics; Community development; *Hypoxylon* spp.; Wood decay (Chapela, I.H. (53) 273)

Lignin-related aromatic compound
Metabolism; Genetic transmissibility (Andreoni, V. (53) 129)

Luminous bacterium
Vibrio sp.; *Mugil cephalus*; *Tachysurus arius* (Ramesh, A. (53) 27)

λ-value
Rhizosphere bacteria; Viability (Bååth, E. (53) 355)

Metabolism
Lignin-related aromatic compound; Genetic transmissibility (Andreoni, V. (53) 129)

Metallogenium
Adhesion; *Pedomicrobium manganicum*; *Hyphomicrobium* (Sly, L.I. (53) 175)

Methanogen
Agricultural nitrogen fixation; Rice field (Rajagopal, B.S. (53) 153)

Methanogenesis
Salt marsh; Methylated sulphur compound; Flux; Sulphate reduction (Kiene, R.P. (53) 71)

Methazotroph
Methylotroph; Alternating environment (Legan, J.D. (53) 307)

Methylated sulphur compound
Salt marsh; Flux; Methanogenesis; Sulphate reduction (Kiene, R.P. (53) 71)

Methylotroph
Methazotroph; Alternating environment (Legan, J.D. (53) 307)

Methylotrophic bacterium
Microbial degradation; Hydrocarbon-utilizing bacterium; Trichloroethylene; Chloroform (Henson, J.M. (53) 193)

bis(Methylthio)methane
Cyanobacterial bloom; Diisopropyl disulphide; Dibutyl sulphide; Chemotaxonomy; Volatile organic odour compound (Hofbauer, B. (53) 113)

Microaerophily
Wolinella recta; Formate oxidation; Anaerobic respiration (Ohta, H. (53) 79)

Microbial degradation
Methylotrophic bacterium; Hydrocarbon-utilizing bacterium; Trichloroethylene; Chloroform (Henson, J.M. (53) 193)

Microbial viability
Ethidium bromide; INT; Fluorescence microscopy (Swannell, R.P.J. (53) 315)

Microcoleus chtonoplastes
Substrate inhibition; Oxygenic and anoxygenic photosynthesis; Sulphidostat continuous culture (De Wit, R. (53) 203)

Microcystis aeruginosa
Buoyancy regulation; Gas vesicle; Temperature; Photosynthesis (Kromkamp, J. (53) 231)

Mixed bacterial culture
Biodegradation; Biphenyl; Chlorobiphenyl; Gas chromatography-mass spectrometry (Kilpi, S. (53) 19)

Mixed culture
Sulphur oxidation; Soil fungus; Mycorrhiza; Wood-rotting fungus; Soil yeast (Grayston, S.J. (53) 1)

Molybdate
Acetate; Butyrate; Fatty acid; Hypersaline; Propionate; Pyrite; Sulphate reduction rate (Skyring, G.W. (53) 87)

Mugil cephalus
Luminous bacterium; *Vibrio* sp.; *Tachysurus arius* (Ramesh, A. (53) 27)

Mycelial cord
Succession; Interspecific interaction; Replacement mechanism; Wood decay (Chapela, I.H. (53) 59)

Basidiomycetes; Foraging; Fungal growth; Wood decay (Dowson, C.G. (53) 291)

Mycorrhiza
Sulphur oxidation; Soil fungus; Wood-rotting fungus; Mixed culture; Soil yeast (Grayston, S.J. (53) 1)

Myxogastrid
Slime mould; Phagotroph; Dictyostelid; Ciliate; Amoeba; Bacterium (Feest, A. (53) 133)

Slime mould; Phagotroph; Dictyostelid; Ciliate; Amoeba; Bacterium (Feest, A. (53) 141)

Nematode-destroying fungi
Woodland soil (Sünder, A. (53) 285)

N_2 fixation
Associative N_2-fixer; Diazotroph; Pesticide (Haahtela, K. (53) 123)

Nitrate
Acetylene inhibition technique; Benthic algae; Rhizosphere (Christensen, P.B. (53) 335)

Nitrogen
Pseudomonas chlororaphis; *Pseudomonas aureofaciens*; Competition; Denitrification; Oxygen (Christensen, S. (53) 217)

Nitrous oxide
Biofilm; Acetylene inhibition technique (Sørensen, J. (53) 345)

^{13}C-NMR
Volatile fatty acid interconversion; Anaerobic sludge (Tholozan, J.-L. (53) 187)

Nonsulphur purple bacterium
Photosynthesis; Aromatic catabolism; (*Rhodopseudomonas palustris*) (Madigan, M.T. (53) 53)

Oxygen
Actinomyces; Cytochrome; Dental plaque (De Jong, M.H. (53) 45)

Pseudomonas chlororaphis; *Pseudomonas aureofaciens*; Competition; Denitrification; Nitrogen (Christensen, S. (53) 217)

Oxygenic and anoxygenic photosynthesis
Substrate inhibition; *Microcoleus chtonoplastes*; Sulphidostat continuous culture (De Wit, R. (53) 203)

Pedomicrobium manganicum
Adhesion; *Metallogenium*; *Hyphomicrobium* (Sly, L.I. (53) 175)

Pesticide
Associative N_2-fixer; Diazotroph; N_2 fixation (Haahtela, K. (53) 123)

Phagotroph
Slime mould; Myxogastrid; Dictyostelid; Ciliate; Amoeba; Bacterium (Feest, A. (53) 133)

Slime mould; Myxogastrid; Dictyostelid; Ciliate; Amoeba; Bacterium (Feest, A. (53) 141)

Photobleaching
Cryptomonas; Photomovement; Survival (Häder, D.-P. (53) 9)

Photomovement
Cryptomonas; Photobleaching; Survival (Häder, D.-P. (53) 9)

Automatic cell counting; *Euglena gracilis*; Flagellate; Gravitaxis; Vertical distribution (Häder, D.-P. (53) 159)

Photosynthesis
Nonsulphur purple bacterium; Aromatic catabolism; (*Rhodopseudomonas palustris*) (Madigan, M.T. (53) 53)

Microcystis aeruginosa; Buoyancy regulation; Gas vesicle; Temperature (Kromkamp, J. (53) 231)

Population dynamics
Rhizobium leguminosarum biovar *trifolii*; Bulk soil; Cell size; Immunofluorescence (Postma, J. (53) 251)

Post-feeding H_2 fluctuation
Ruminal methanogenesis; H_2 probe; Fermentation monitoring (Smolenski, W.J. (53) 95)

Propionate
Acetate; Butyrate; Fatty acid; Hypersaline; Molybdate; Pyrite; Sulphate reduction rate (Skyring, G.W. (53) 87)

Pseudomonas aureofaciens
Pseudomonas chlororaphis; Competition; Denitrification; Oxygen; Nitrogen (Christensen, S. (53) 217)

Pseudomonas chlororaphis
Pseudomonas aureofaciens; Competition; Denitrification; Oxygen; Nitrogen (Christensen, S. (53) 217)

***Pseudomonas* spp.**
Conjugation; Soil; Rhizosphere (Van Elsas, J.D. (53) 299)

Psychrophilic bacterium
Chitin degradation; Antarctica; Krill (Herwig, R.P. (53) 101)

Pyrite
Acetate; Butyrate; Fatty acid; Hypersaline; Molybdate; Propionate; Sulphate reduction rate (Skyring, G.W. (53) 87)

Recalcitrant compound
Anaerobic biotransformation; Chlorinated benzene; Environmental pollutant; Sequential reductive dechlorination (Bosma, T.N.P. (53) 223)

Replacement mechanism
Succession; Interspecific interaction; Wood decay; Mycelial cord (Chapela, I.H. (53) 59)

Rhizobium leguminosarum* biovar *trifolii
Bulk soil; Population dynamics; Cell size; Immunofluorescence (Postma, J. (53) 251)

Rhizosphere
Conjugation; *Pseudomonas* spp.; Soil (Van Elsas, J.D. (53) 299)

Acetylene inhibition technique; Benthic algae; Nitrate (Christensen, P.B. (53) 335)

Rhizosphere bacteria
λ-value; Viability (Bååth, E. (53) 355)

Rice field
Methanogen; Agricultural nitrogen fixation (Rajagopal, B.S. (53) 153)

Rumen fermentation
Fibre degradation; Ciliate; Defaunation; (Sheep) (Gijzen, H.J. (53) 35)

Ruminal methanogenesis
H_2 probe; Post-feeding H_2 fluctuation; Fermentation monitoring (Smolenski, W.J. (53) 95)

Salt marsh
Methylated sulphur compound; Flux; Methanogenesis; Sulphate reduction (Kiene, R.P. (53) 71)

Sequential reductive dechlorination
Anaerobic biotransformation; Chlorinated benzene; Environmental pollutant; Recalcitrant compound (Bosma, T.N.P. (53) 223)

Slime mould
Myxogastrid; Phagotroph; Dictyostelid; Ciliate; Amoeba; Bacterium (Feest, A. (53) 133)

Myxogastrid; Phagotroph; Dictyostelid; Ciliate; Amoeba; Bacterium (Feest, A. (53) 141)

Soil
Conjugation; *Pseudomonas* spp.; Rhizosphere (Van Elsas, J.D. (53) 299)

Soil fungus
Sulphur oxidation; Mycorrhiza; Wood-rotting fungus; Mixed culture; Soil yeast (Grayston, S.J. (53) 1)

Soil yeast
Sulphur oxidation; Soil fungus; Mycorrhiza; Wood-rotting fungus; Mixed culture (Grayston, S.J. (53) 1)

Stromatolithic mat
Halophilic bacterium; Cell culture; Growth factor (Wais, A.C. (53) 211)

Substrate inhibition
Oxygenic and anoxygenic photosynthesis; *Microcoleus chtonoplastes*; Sulphidostat continuous culture (De Wit, R. (53) 203)

Succession
Interspecific interaction; Replacement mechanism; Wood decay; Mycelial cord (Chapela, I.H. (53) 59)

Sulphate-reducing bacteria
Infra-red; Fatty acids; Biomarkers (Dowling, N.J.E. (53) 325)

Sulphate reduction
Salt marsh; Methylated sulphur compound; Flux; Methanogenesis (Kiene, R.P. (53) 71)

Sulphate reduction rate
Acetate; Butyrate; Fatty acid; Hypersaline; Molybdate; Propionate; Pyrite (Skyring, G.W. (53) 87)

Sulphidostat continuous culture
Substrate inhibition; Oxygenic and anoxygenic photosynthesis; *Microcoleus chtonoplastes* (De Wit, R. (53) 203)

Sulphur oxidation
Soil fungus; Mycorrhiza; Wood-rotting fungus; Mixed culture; Soil yeast (Grayston, S.J. (53) 1)

Survival
Cryptomonas; Photobleaching; Photomovement (Häder, D.-P. (53) 9)

Symbiosis
Insect pathogen; Bioluminescence; Bacterial luciferase (Bleakley, B. (53) 241)

Tachysurus arius
Luminous bacterium; *Vibrio* sp.; *Mugil cephalus* (Ramesh, A. (53) 27)

Temperature
Microcystis aeruginosa; Buoyancy regulation; Gas vesicle; Photosynthesis (Kromkamp, J. (53) 231)

Trichloroethylene
Microbial degradation; Methylotrophic bacterium; Hydrocarbon-utilizing bacterium; Chloroform (Henson, J.M. (53) 193)

Vertical distribution
Automatic cell counting; *Euglena gracilis*; Flagellate; Gravitaxis; Photomovement (Häder, D.-P. (53) 159)

Viability
Rhizosphere bacteria; λ-value (Bååth, E. (53) 355)

***Vibrio* sp.**
Luminous bacterium; *Mugil cephalus*; *Tachysurus arius* (Ramesh, A. (53) 27)

Volatile fatty acid interconversion
Anaerobic sludge; ^{13}C-NMR (Tholozan, J.-L. (53) 187)

Volatile organic odour compound
Cyanobacterial bloom; Diisopropyl disulphide; bis(Methylthio)methane; Dibutyl sulphide; Chemotaxonomy (Hofbauer, B. (53) 113)

Wolinella recta
Formate oxidation; Microaerophily; Anaerobic respiration (Ohta, H. (53) 79)

Wood decay
Succession; Interspecific interaction; Replacement mechanism; Mycelial cord (Chapela, I.H. (53) 59)

Colonization dynamics; Community development; *Hypoxylon* spp.; Latent invasion (Chapela, I.H. (53) 273)

Basidiomycetes; Foraging; Fungal growth; Mycelial cord (Dowson, C.G. (53) 291)

Woodland soil
Nematode-destroying fungi (Sünder, A. (53) 285)

Wood-rotting fungus
Sulphur oxidation; Soil fungus; Mycorrhiza; Mixed culture; Soil yeast (Grayston, S.J. (53) 1)